

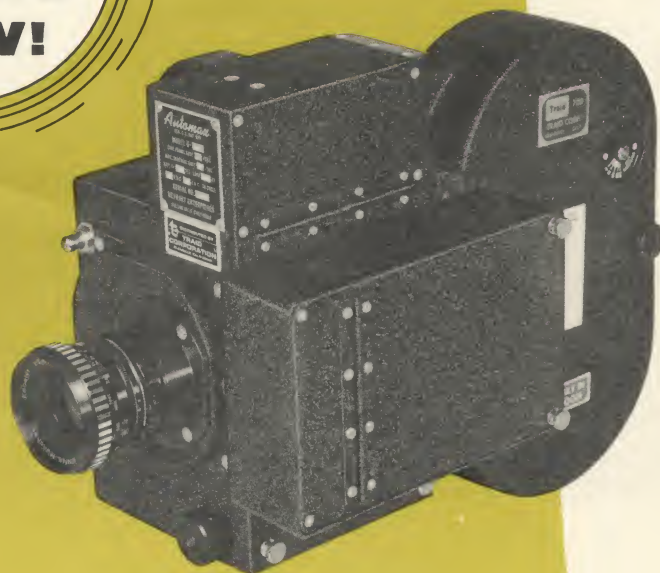
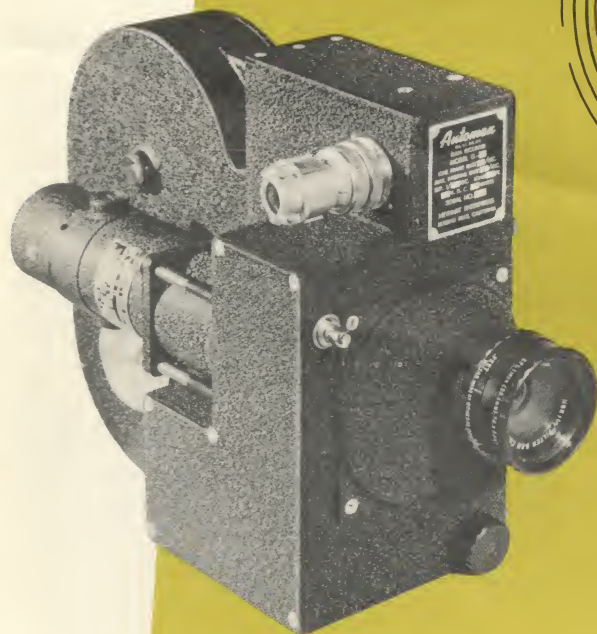
NEYHART AUTOMAX 35MM PULSE CAMERAS

Note:
this is used
in somebody's
CRT recorder
(p. 2).



the "beetle" of data cameras

**OVER
10
YEARS
NEW!**



Like the certain "beetle" of the auto world, the Neyhart AUTOMAX 35MM pulse cameras have looked the same for years. But their rugged insides are continuously redesigned to keep pace with demands of modern data recording systems.

Automax Cameras Used for
Highway Congestion Studies

AUTOMAX MAKES NEWS!

Automax Records
Soft Landing on Moon

WEATHER PREDICTIONS BASED
ON STUDIES RECORDED
BY AUTOMAX CAMERAS

THOUSANDS OF LUNAR LANDSCAPE
PHOTOS RECORDED BY AUTOMAX

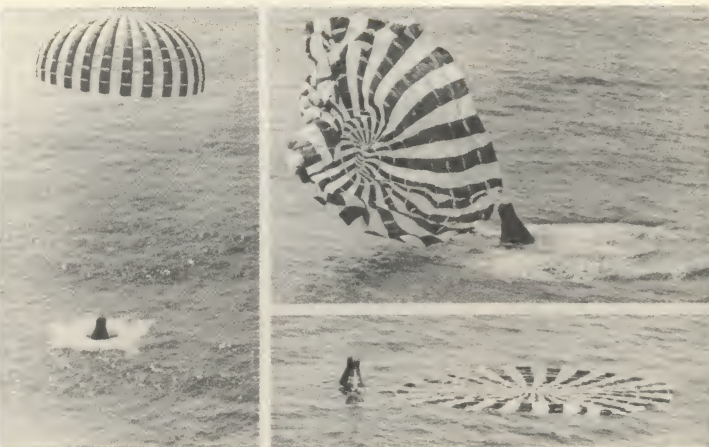
AUTOMAX STANDARD DATA PANEL
RECORDING CAMERA OF AIRCRAFT
INDUSTRY FOR OVER TEN YEARS

AUTOMAX MOUNTED ON WING
TIPS FOR CLOUD STUDIES

No Malfunctions in Two
Years Aerial Operation from
South America to Alaska

Automax Survives
Helicopter Crash
— Film Undamaged

AUTOMAX CHOSEN FOR
MAN IN SPACE TEST



Here's a camera with modern guts to meet your specific data recording needs.

WHAT CAN AUTOMAX DO FOR YOU?

EXCLUSIVE FEATURES OF THE AUTOMAX 35MM CINE PULSE CAMERA SYSTEM

Cast aluminum frame and case combination which retains optical, mechanical and film alignment under rough usage. All components are attached to this structural unit.

Independent film take-up motor insures tight winding of exposed film; prevents inter-wrap movement and abrading, and provides maximum reliability.

Electro magnetic clutch incorporates a single drive plate disc clutch-brake combination that provides clutch life in excess of 25 million cycles.

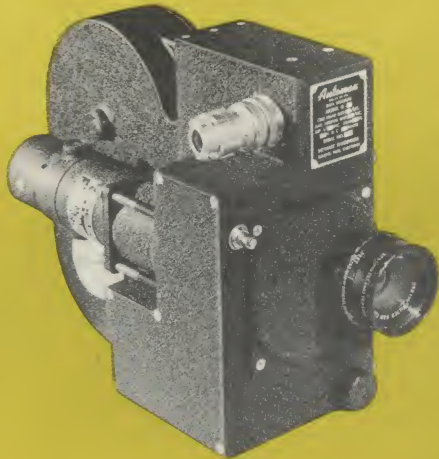
Star type Geneva film movement provides intermittent film advance by simultaneously engaging 16 film perforations. Film tearing or deforming is completely eliminated even when using brittle film. Film registration is held to a tolerance of plus or minus .0015 inches. Greater accuracies are available on special order.

All Automax models are "lubricated-for-life".

The Automax equipment is guaranteed for a period of two years per the written guarantee in the instruction manual.

NEYHART

AUTOMAX G-1



The G-1 is the basic camera in the Automax series. Pulse mode actuation is by electro magnetic clutch, incorporating a single drive plate disc-clutch-brake combination. Separate film take-up motor is enclosed in the camera. Shutter speed is 1/64th second. Camera accepts Mitchell mount or TRAIID displacement magazines — either 100-foot, 200-foot or 400-foot; boresight is built in. A correlation switch provides output pulse 10 milliseconds before apex of shutter opening. A star type geneva movement mechanism is used, incorporating positive intermittent sprocket film advance — engaging a minimum of 14 film perforations.

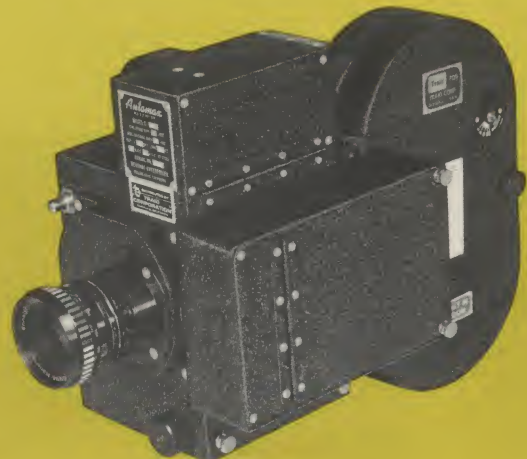
Several versions of the G-1 are available — all with their special purpose. For double-frame, scope recording or shutter-dwell models, please see chart on back of brochure.

FEATURES:

- 35mm Film • 28V DC Motor • Rugged & Compact • Easy Maintenance, Long Life
- Pulse Rate up to 10 fps • Cine Rate 16 fps • USAF Environmental Tested

NEYHART

AUTOMAX G-2



The G-2 has all the rugged dependability and versatility of the G-1, with the added convenience of an auxiliary data box.

A small panel in the data chamber will accommodate various combinations of clocks, counters and other small instruments, as well as up to 200 tiny incandescent lamps for coded recording.

An auxiliary optical system photographs the data panel instruments, while simultaneously the primary image is transmitted by the camera objective lens. The result is a data area of .232" X .738" and picture area of .738" X .738" on each frame of film.

The G-2 does not provide a correlation pulse unless the data panel subject matter is self-illuminated, such as indicator lamps.

For variations of G-2 please see back of brochure.

FEATURES:

- 35mm Film • 28V DC Motor • Auxiliary Data Box • Rugged, Compact • Pulse Rate up to 10 fps • Cine Rate 16 fps • USAF Environmental Tested

AUTOMAX G-1

18-28V DC 115V AC optional
Up to 10 frames per second
16 frames per second
Standard 35mm single frame, .738" X .970"
100, 200 and 400 feet
1/64 second standard, others optional
Eyemo Standard, Leica optional
One 3/8" screw hole in center,
provision for four positioning pins.
Standard Mitchell
Provides Output Pulse for each foot of film
Built-in viewing mirror
Minimum of 50 milliseconds
Provides output pulse 10 milliseconds
before apex of shutter opening.
8 3/4" high, 4 1/2" deep, 4 1/2" wide
10 1/4 lbs.
Black wrinkle over black anodize

SPECIFICATIONS

Voltage required
Pulsed Rate
Cine Rate
Film Format
Film Capacity
Exposure
Lens Mounting
Camera Base Mounting
Magazine Mounting
Footage Counter Switch
Boresight
Pulse Duration Requirement
Correlation Switch
Dimensions, less magazine
Weight, less lens and magazine
Finish

AUTOMAX G-2

18-28V DC 115V AC optional
Up to 10 frames per second
16 frames per second
.738" X .738" Sq. Format; .238" X .738" Auxiliary Data
100, 200 and 400 feet
1/64 second standard, others optional
See Lens List
One 3/8" screw hole in center,
provision for four positioning pins.
Standard Mitchell.
Provides Output Pulse for each foot of film.
Built-in.
50 to 85 milliseconds.
Not available.
8 3/8" high, 4 1/2" deep, 6 1/4" wide.
12 lbs.
Black wrinkle over black anodize

ENVIRONMENTAL (Official United States Air Force Tests)

15 g's in all directions
Plus 150°F to minus 70°F
90% at plus 150°F
80,000 feet
.05" amplitude up to 58 c.p.s. (not tested higher)

Acceleration
Temperature
Humidity
Altitude
Vibration

15 g's in all directions
Plus 150°F to minus 70°F
90% at plus 150°F
80,000 feet
.05" amplitude up to 58 c.p.s. (not tested higher)

GENERAL OUTLINE OF AUTOMAX CAMERAS

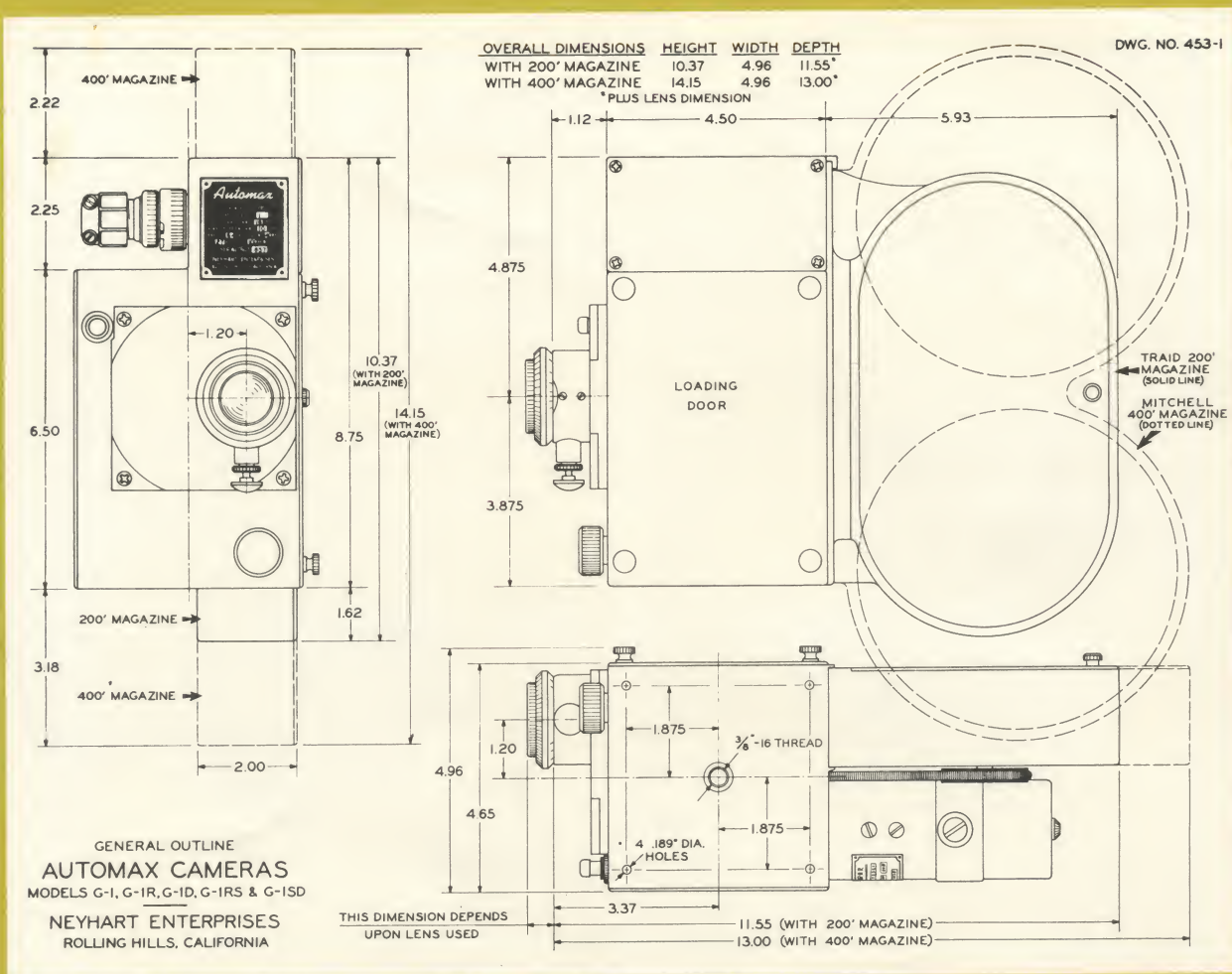


CHART FOR DIFFERENT VERSIONS OF AUTOMAX CAMERAS

- (1) Controlled by switch
- (2) Successive pulses move shutter half-revolution
- (3) Including auxiliary data area in G-2 models
- (4) Depends on pulsing rate

Mode of Operation								
		Shutter						
Model	Pulse	Cine	Closed to Closed	Open to Open	Format	Exposure Time	Maximum Pulse Rate	Cine Rate
G-1					¾" x 1"			
G-2	yes	yes	yes	—	(3)	1/64 sec.	10/sec.	16 fps
G-1R				yes	¾" x 1"	see 4	15/sec.	—
G-1RS			yes	yes	¾" x 1"	see 4	10/sec.	—
G-1SD			yes	yes	¾" x 1"			
G-2SD	yes	—	(2)	(2)	(3)	see 4	8/sec.	—
G-1D	yes	yes	yes	—	1½" x 1"	1/64 sec.	5/sec.	8 fps

ALL AUTOMAX CAMERAS CAN BE SUPPLIED WITH 110VAC, 60 CYCLE PRIMARY DRIVE MOTOR AT NO ADDITIONAL COST. 28VDC, 2 AMP. POWER IS REQUIRED TO OPERATE THE TAKE-UP MOTOR AND CLUTCH.

**FOR COMPLETE INFORMATION
OR DEMONSTRATION CONTACT:**



TRAID CORPORATION 777 Flower Street Glendale, California 91201 AC 213-245 9393



TRAID CORPORATION

777 FLOWER ST., P. O. BOX 1839, GLENDALE, CALIFORNIA 91209

T. Nelson- Consultant
Box 1546
Poughkeepsie, New York 12603

Thank you for your interest in . . .

Automax and 16N Projector

The attached literature will give you the information you requested. Should you have further questions about your specific requirements, they can be answered by:

NORTHEASTERN OFFICE
Vince Koenig
1608 Forest Glen Road
Silver Spring, Maryland 20910
301/587-3003

Photographic Instruments and Data Analyzers

TRAID CORPORATION, GLENDALE, CALIFORNIA
 PRICE LIST
 SECTION 7

AUTOMAX DATA RECORDING CAMERAS

<u>PART OR MODEL NUMBER</u>	<u>PRODUCT & SPECIFICATIONS</u>	<u>PRICE</u>
G-1(Deluxe)	Automax - 35mm, single frame format (.738 x .970), pulse rates up to 10 fps, cine rate of 16 fps, exposure 1/64 second, 28V DC primary drive motor with separate 28 V DC take-up motor. Eyemo lens mount standard, Leica mount optional. Mitchell magazine mount, footage counter switch, locking sprocket guards, correlation output pulse, built in boresight mirror and life lubricated. With carrying case, viewing screen, mating connector. Less lens and magazine.	\$2,075.00
G-1D(Deluxe)	Automax - 35mm, double frame format (.970 x 1.436), pulsed rates up to 5 fps, cine rate of 8 fps. Leica lens mount. All other specifications same as Model G-1, except less built in boresight mirror. Less lens and magazine.	2,190.00
G-1R(Deluxe)	Automax - scope recording version of G-1. Automax operates from open-shutter, to open-shutter positions, rapid pulldown, shutter-dark period of 30 milliseconds, pulse rate up to 15 fps, all other specifications same as Model G-1. Less lens and magazine.	2,170.00
G-1RS(Deluxe)	Automax - Combination of standard G-1 Automax and G-1R Scope recording version. Can be operated from open-shutter to open-shutter, or from closed-shutter to closed-shutter, maximum of 10 fps pulsed in open-shutter mode, exposure of 1/25th second in closed-shutter mode, cine operation not recommended. All other specifications same as Model G-1. Less lens and magazine.	2,170.00
G-1SD(Deluxe)	Automax - shutter-dwell version of G-1 Automax, two pulses required to complete one cycle of operation, maximum pulsed rate of 8 fps, minimum exposure 1/50th second, all other specifications same as Model G-1. Less lens and magazine.	2,075.00

AUTOMAX DATA RECORDING CAMERAS

<u>PART OR MODEL NUMBER</u>	<u>PRODUCT & SPECIFICATIONS</u>	<u>PRICE</u>
G-2(Deluxe)	Automax - Provisions for auxiliary data recording on each frame by supplementary lens system at the aperture. Primary picture format .738" square, data area .200" x .738". Special lens mount required. (See special lens listing for G-2 Cameras) Does not include data box accessories, (See data box accessories price list, all other specs, etc.) Less Lens and magazine.	\$2,650.00
G-2R(Deluxe)	Automax - same as Model G-1R with Auxiliary Data Panel. See specifications on G-1R and G-2. Special lens mount. Less lens and magazine.	2,650.00

NOTE: All the above cameras can be supplied with 110V AC, 60 cycle primary drive motor at no additional charge. The camera still requires 28V DC, 2 amps to operate the take-up motor and the clutch. The AC motor is recommended for ground applications where it is necessary to run the motor for long periods of time.

The AC version of the G-1 Series of Cameras are designated as Model G-3. The AC version of the G-2 Series of Cameras are designated as Model G-4.

EXAMPLE: Camera with all specifications as Model G-1 except 110V AC primary drive motor is designated Model G-3.

OPTIONAL FEATURES

PR-8A	Frame Counter Switch Installed as original equipment Installed on used cameras	\$ 40.00 50.00
M-11	Full Frame Boresight Mirror (Single Frame Only) Installed as original equipment Installed on used cameras	40.00 55.00
G-60A	Variable shutter for Models G-1 and G-2, provides four positions as specified.	125.00
<u>MODEL G-2 & G-4 DATA BOX ACCESSORIES</u>		
TE 1010	24 Hour Accutron Clock, Installed	167.50
CZ-4	Four-Digit, Quick-reset counter, including connector.	65.00
	Data Slate.	8.00

AUTOMAX DATA RECORDING CAMERAS

ACCESSORIES

<u>PART OR MODEL NUMBER</u>	<u>PRODUCT & SPECIFICATIONS</u>	<u>PRICE</u>
2169	10X Boresight Tool, including special camera door.	\$ 175.00
700	Magazine, 35mm displacement type. Accepts 100' daylight spools or 200' darkroom load core film.	195.00
S-4L	Magazine, 35mm, 400' Mitchell	195.00
S-10B	Magazine, 35mm, 1000' Mitchell. Not to be used in excess of 2 pictures per second.	275.00
S-10V	Magazine, 35mm, 1000' Mitchell modified with "V" belt drive to run up to 10 fps pulse. Includes "V" belt modification of camera.	499.00
708	Split magazines, 35mm, 400' with Mitchell Adaptor plate.	693.00
708-1	Adaptor Plate Assembly for 708 Magazine.	140.00
708-A	Supply Magazine	266.50
708-B	Take-up Magazine.	286.50
G-62	Extra Viewing Screen	4.50
A-700-023-1	Film Spool Adaptor for Female Core Type C.	7.50

LENSES FOR AUTOMAX G-1D & G-1
HAVING LEICA SCREW TYPE LENS MOUNTS

35-053	9.8mm F1.8 Kinoptik Apochromat*	756.00
35-054	18mm F/1.8 Kinoptik Apochromat*	430.00
35-055	25mm F/2.0 Kinoptik Apochromat*	370.00
35-056	28mm F/2.0 Kinoptik Apochromat*	370.00
35-057	35mm F/2.0 Kinoptik Apochromat*	380.00
112009	35mm F/2.0 Canon	150.00
112010	35mm F/1.8 Canon	160.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE
FOB GLENDALE, CALIFORNIA

AUTOMAX DATA RECORDING CAMERAS

LENSES FOR AUTOMAX G-1D & G-1
HAVING LEICA SCREW TYPE LENS MOUNTS (continued)

<u>PART OR MODEL NUMBER</u>	<u>PRODUCT & SPECIFICATIONS</u>	<u>PRICE</u>
112011	35mm F/1.5 Canon	\$ 190.00
35-058	50mm F/2.0 Kinoptik Apochromat	356.00
112028	50mm F/1.8 Canon	110.00
112029	50mm F/1.4 Canon	150.00
112030	50mm F/1.2 Canon	210.00
LN 247	55mm F/1.2 CRT P-11 Nikkor (For data display only.)	275.00
35-060	75mm F/2.0 Kinoptik Apochromat	356.00
112035	85mm F/1.8 Canon	170.00
35-061	100mm F/2.0 Kinoptik Apochromat	427.00
112014	100mm F/3.5 Canon	100.00
112015	100mm F/2.0 Canon	170.00
112018	135mm F/3.5 Canon	130.00

* Suitable for Automax G-1 ONLY (will not cover G-1D double frame.)
NOTE: Kinoptik Lenses in Leica Mount are designed for use ONLY with
Automax Cameras. They are not rangefinder coupled for use with 35mm
still cameras and their use with same will prove unsatisfactory.

G-2/G-4 MOUNT LENSES

35-029	18mm F/11 Takumar	\$ 229.50
35-030	24mm F/4.0 Ennalyt	140.00
35-031	28mm F/3.5 Ennalyt	150.00
35-032	28mm F/3.5 Super-Takumar	195.20
35-033	35mm F/2.8 Ennalyt	125.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
FOB GLENDALE, CALIFORNIA

AUTOMAX DATA RECORDING CAMERAS

G-2/G-4 MOUNT LENSES (continued)

<u>PART OR MODEL NUMBER</u>	<u>PRODUCT & SPECIFICATIONS</u>	<u>PRICE</u>
35-051	35mm f/2.0 Super-Takumar	\$ 259.50
35-035	40mm F/2.8 Kilfitt Makro-Kilar D*	157.75
	50mm F/3.5 Zeiss Tessar	100.00
35-036	55mm F/1.8 Super-Takumar	144.60
35-037	85mm F/1.9 Super-Takumar	249.50
35-066	85mm F/1.4 Komura	229.50
35-064	105mm F/2.8 Takumar	124.50
35-065	135mm F/3.5 Takumar	124.50

Longer focal lengths available on request.

*This lens is designed for working at close distances, it will focus to 2" from the subject allowing a maximum image-to-subject ratio of 1:1.1. It is recommended for close work where flat-field recording is important. Can also be provided for G-1 and G-1D Cameras. Information on request.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
FOB GLENDALE, CALIFORNIA

Revised
11/7/66